

# DOE Review Preparations: DOE Recommendations for Accelerator Physics



- Prepare, for Front End recommissioning at ORNL..a diagnostic system in the MEBT to demonstrate beam gap cleanliness, as well as to measure transverse halo.
  - Laser-based BIG measurement in commissioning plan, halo measurement under investigation
  - Expect  $10^{-4}$  sensitivity
- Present, at the next review, refined beam dynamics simulations down the accelerator chain, using the latest beam distribution input information from the commissioning of the Front-End.
  - The latest beam distributions provide no additional information for going beyond end-to-end simulations already done. The RFQ and MEBT RMS data is in agreement with end-to-end simulations.
  - Will obtain new emittance data from LEBT, but not by next review (Stockli)
- Support the use of the device database as a project wide tool.
  - Database is ever-expanding, will continue to enhance its use.

# DOE Review Timeline

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- Tues Oct 8 – Today
- Tues Oct 15
- Tues Oct 22
- Tues Oct 29
  - DOE Plenary Dry runs
  - Final Discussion/Approval of Parameter List Update
- Tues Nov 5
  - AP Breakout Dry runs
- Wed-Fri Nov 13-15
  - **DOE Review**